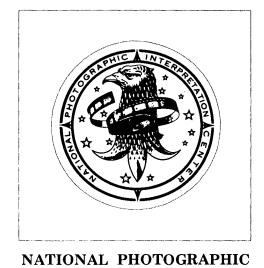
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INTERPRETATION CENTER

PHOTOGRAPHIC INTERPRETATION REPORT

25**X**1

SOVIET NATIONAL-LEVEL, VIP-SUPPORT AIRBORNE-COMMAND-RELATED AIRCRAFT (TSRU)

Top Secret

25X1

PIR-023/79

MAY 1979

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| SOVIET NATIONAL-LEVEL, VIP-SUPPORT/AIRBORNE- COMMAND-RELATED AIRCRAFT (TSRU) |
| INTRODUCTION |
| (TSRU) Through analysis of overhead and hand-held imagery |
| five types of Soviet aircraft related to national-level VIP support and/or |
| command have been identified. These aircraft have been temporarily designated |
| s: CLASSIC Communications Satellite Modified (Comsat Mod), CRUSTY Com- |
| CRUSTY VIP Mod, COOT Airborne Command Post Modified (ACP Mod), and Relay Mod. This report presents key photographic signatures and overhead or |
| d imagery of each aircraft and a brief discussion and imagery of Moscow/Shchel- |
| and Moscow/Vnukovo Airfields, USSR, where all |
| ese types of aircraft have been observed. |
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| D. T. G. C. D. T. D. T. C. D. T. D. T. C. D. T. C. D. T. D. |
| DESCRIPTION |
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| |
| SIC Comsat Mod |
| SIC Comsat Mod All of the CLAS- |
| All of the CLAS- msat Mods observed thus far have had civilian markings. A list of the BNs of those |
| All of the CLAS- msat Mods observed thus far have had civilian markings. A list of the BNs of those IC Comsat Mods identified from photography is included on |
| All of the CLAS- msat Mods observed thus far have had civilian markings. A list of the BNs of those IC Comsat Mods identified from photography 1. On at Tashkent Airfield South one of these was observed This aircraft |
| All of the CLAS- nsat Mods observed thus far have had civilian markings. A list of the BNs of those C Comsat Mods identified from photography is included on one of these was observed This aircraft |
| All of the CLAS- nsat Mods observed thus far have had civilian markings. A list of the BNs of those C Comsat Mods identified from photography I. On at Tashkent Airfield South one of these was observed This aircraft parently later repainted and now appears to be similar to a conventional IL-62 |
| All of the CLAS- msat Mods observed thus far have had civilian markings. A list of the BNs of those IC Comsat Mods identified from photography 1. On at Tashkent Airfield South one of these was observed This aircraft parently later repainted and now appears to be similar to a conventional IL-62 |
| All of the CLAS- msat Mods observed thus far have had civilian markings. A list of the BNs of those iC Comsat Mods identified from photography is included on it. On at Tashkent Airfield South one of these was observed This aircraft parently later repainted and now appears to be similar to a conventional IL-62 |
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| All of the CLAS- sat Mods observed thus far have had civilian markings. A list of the BNs of those Comsat Mods identified from photography On at Tashkent Airfield South one of these was observed This aircraft rently later repainted and now appears to be similar to a conventional IL-62 |



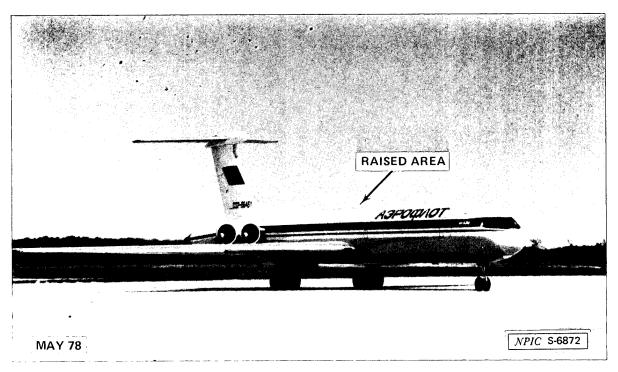


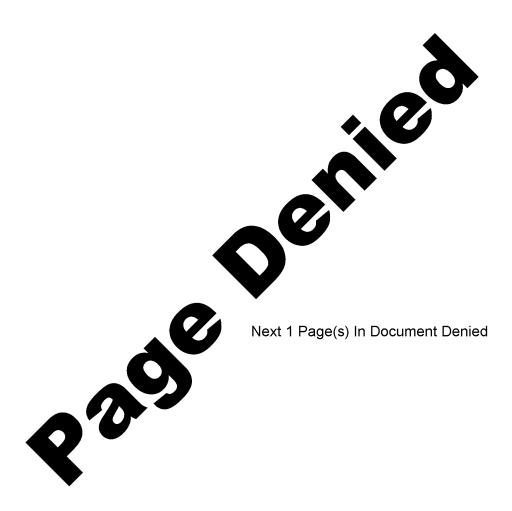
FIGURE 2. CLASSIC COMSAT MOD, ANDREWS AIR FORCE BASE, USA

CRUSTY Comsat Mod

| This aircraft has not been identified from photography; with a modified raised area similar to that | 25X1 25X1 25X1 |
|---|----------------------|
| previously seen on the CLASSIC Comsat Mod was observed on The | 25X1 25X1 |
| | |
| 5. (TSR) The CRUSTY Comsat Mod, unlike the conventional TU-134 CRUSTY, has | |
| All CRUSTY Comsat Mods observed thus far have had civilian markings. The only BN identified on a CRUSTY | 25 X 1 |
| Comsat Mod from photography | 25 X 1 |

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| 6. (TSRU) The CRUSTY VID Med was identified to | |
|---|----------------------|
| 6. (TSRU) The CRUSTY VIP Mod was identified through analysis of hand-held photography of a modified TU-314 CRUSTY which supported the movements of Soviet Defense Minister Ustinov during 1978, and of satellite imagery of a similar aircraft observed at both Kharkov Airframe Plant 135 and Moscow/Shchelkovo Airfield. | 25X1 25X1 25X1 |
| 7. (TSR) The CRUSTY VIP Mod, unlike the conventional TU-134 CRUSTY, has | |
| | 25X´ |
| phy is The only BN identified on a CRUSTY VIP Mod from photogra- | 25 X 1 |
| COOT ACP Mod | |
| | |
| | |
| | |
| These aircraft were first observed on imagery at Ramenskoye Flight Test Center and later at Moscow/Shchelkovo Airfield. | 25 X 1 |
| 9. (TSR) The COOT ACP Mod, unlike the civilian IL-18 COOT, | 25 X 1 |
| | |
| ings, but at least one had military markings. This aircraft with military markings may have been withdrawn from military service for conversion to a COOT ACP Mod and subsequently repainted. It was last positively identified at Ramenskoye Flight Test Center on A list of the BNs of those COOT ACP Mods identified from imagery is included on Figure 8. | .25X1 |
| COOT Relay Mod | J : |
| | 25X1 |
| | ı |
| | |
| | |
| | |

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FIGURE 7. CRUSTY VIP MOD, HELSINKI-VANTAA AIRPORT, FINLAND

| 11. (TSR) The COOT Relay Mod, unlike the conventional IL-18 COOT, |
|---|
| |
| |
| |
| All COOTED I. M. I. d. d. l. l. l. |
| have had civilian markings. The only BNs identified on the COOT Relay Mod from photography are |
| photography are |
| Moscow/Shchelkovo Airfield |
| 12. (TSRU) All five of the previously discussed types of aircraft related to national-level VIP support and/or airborne command have been identified on photography of Mos- |
| cow/Shchelkovo Airfield, |
| Figure 12 is a mosaic from |
| of Moscow/Shchelkovo Airfield showing the usual parking |
| |
| locations of the various types of national-level, VIP-support/airborne-command-related |
| aircraft. Table 1 lists the numbers and types of these aircraft identified at Moscow/Shchel- |
| |
| aircraft. Table 1 lists the numbers and types of these aircraft identified at Moscow/Shchel- |

25X1 25X1

25X1

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25X1 √25X1 25X1



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| oscow/Vnukovo Airfield | |
|---|------|
| 13. (TSRU) Moscow/Vnukovo Airfield | |
| ² The CLASS | SIC |
| msat Mod is the only one of the five types of national-level, VIP-support/airborn | |
| nmand-related aircraft discussed in this report that has been identified at this airfie is is probably due to a lack of high-resolution/large-scale coverage of the airfield. Us | |
| 12 to 16 CRUSTY and three to four COOT are observed parked at the airfield near | |
| all parking location of the CLASSIC Comsat Mod (Figure 13). A number of the craft may be national-level, VIP-support/airborne-command-related types. | ese |
| 14. (TSRU) Table 2 lists the numbers and types of national-level, VIP-support/2 | air- |
| ne-command-related aircraft identified at Moscow/Vnukovo Airfield from | |
| | |
| | |

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Table 1

National-Level, VIP-Support/Airborne-Command-Related Aircraft Identified at

Moscow/Shchelkovo Airfield, February 75 — December 78*

This table in its entirety is classified TOP SECRET RUFF UMBRA

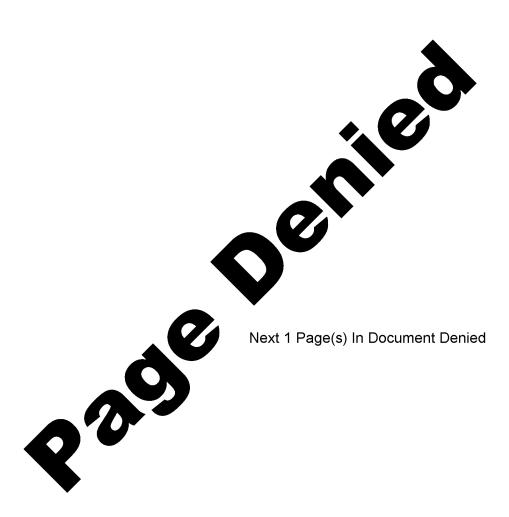
| Date | No & Type of Aircraft | Remarks |
|------|---------------------------|------------------|
| | | |
| | _ | None Discernible |
| | _ | None Discernible |
| | _ | None Discernible |
| | 1 COOT ACP Mod | |
| | 1 Poss COOT ACP Mod | |
| | 1 COOT ACP Mod | |
| | | None Discernible |
| | 1 COOT ACP Mod | |
| | 2 COOT Relay Mod | |
| | 2 Poss COOT Relay Mod | |
| | | None Discernible |
| | 1 COOT ACP Mod | |
| | 1 COOT ACP Mod | |
| | 1 Poss COOT ACP Mod | |
| | 1 7 000 0001 7to1 1110u | |
| | | None Discernible |
| | 1 CLASSIC Comsat Mod | |
| | 1 CRUSTY Comsat Mod | |
| | 3 COOT Relay Mod | |
| | _ | None Discernible |
| | _ | None Discernible |
| | 2 COOT ACP Mod | |
| | 1 COOT ACP Mod | |
| | 2 Poss COOT ACP Mod | |
| | | None Discernible |
| | 1 COOT ACD Mod | |
| | 1 COOT ACP Mod | None Discernible |
| | C COOT ACR Mad | None Discernible |
| | 6 COOT ACP Mod | |
| | 2 CLASSIC Comsat Mod | |
| | 6 COOT ACP Mod | |
| | 2 Prob CLASSIC Comsat Mod | |
| | 6 COOT ACP Mod | |
| | 2 Poss CLASSIC Comsat Mod | |
| | 2 COOT ACP Mod | |
| | 5 Poss COOT ACP Mod | |
| | 2 CLASSIC Comsat Mod | |
| | 1 CRUSTY Comsat Mod | |

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Table 1 (cont)

| Date | No & Type of Aircraft | Remarks | 05)// |
|-------------------|---------------------------------------|---------------|---------------|
| | 2 COOT ACP Mod | | 25 X 1 |
| | 2 CLASSIC Comsat Mod | | |
| | | | 25 X 1 |
| | 1 CRUSTY Comsat Mod | | |
| | 1 CRUSTY VIP Mod | | |
| | 1 Prob COOT Relay Mod | | |
| | 5 COOT ACP Mod | | |
| | 2 Prob CLASSIC Comsat Mod | | • |
| | 1 Prob CRUSTY Comsat Mod | | |
| | 1 Prob COOT Relay Mod | | 2 ' |
| | 8 COOT ACP Mod | | 25 X 1 |
| | | | 25 X 1 |
| | | | |
| | | | |
| | 2 CLASSIC Comsat Mod | | |
| | | | 25 X 1 |
| | 1 CRUSTY Comsat Mod | | |
| | 2 CRUSTY VIP Mod | | |
| | 3 COOT Relay Mod | | |
| | 8 COOT ACP Mod | | 25X1 |
| | | | 25 X 1 |
| | | | |
| | | | |
| | 2 CLASSIC Comsat Mod | | |
| | 1.5.1.05110511.0 | | 25 X 1 |
| | 1 Prob CRUSTY Comsat Mod | | |
| | 1 COOT Relay Mod | | 1 |
| | E COOT ACR Mad | Cloud covered | • |
| | 5 COOT ACP Mod 8 Prob COOT ACP Mod | | |
| | 6 COOT ACP Mod | | |
| | 8 COOT ACP Mod | | |
| | 1 Prob CLASSIC Comsat Mod | | |
| | 1 Poss CLASSIC Comsat Mod | | |
| | 8 COOT ACP Mod | | 0EV1 |
| | S COOT ACT WIND | | 25X1 ,25X1 |
| | | | ,20/(1 |
| | 9 COOT ACP Mod | | |
| | 2 Prob CLASSIC Comsat Mod | | , |
| | 7 COOT ACP Mod | | |
| | 9 COOT ACP Mod | | |
| | 3 CLASSIC Comsat Mod | | |
| | 6 COOT ACP Mod | | |
| | 1 CLASSIC Comsat Mod | | |
| | 1 Prob CLASSIC Comsat Mod | | I |
| *Bort numbers giv | en when identified. | | • |
| | | | 25 X 1 |
| | | | 1 |
| | - 12 - | | • |
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Table 2

National-Level, VIP-Support/Airborne-Command-Related Aircraft Identified at Moscow/Vnukovo Airfield, February 75—December 78*

This table in its entirety is classified TOP SECRET RUFF UMBRA

| Date | No & Type of Aircraft | Remarks |
|------|--|-------------------------|
| | _ | None discernible |
| | | None discernible |
| | | None discernible |
| | _ | None discernible |
| | _ | None discernible |
| | 1 CLACCIC Command Mand | |
| | 1 CLASSIC Comsat Mod | |
| | 1 Prob CLASSIC Comsat Mod 1 CLASSIC Comsat Mod | |
| | 1 Prob CLASSIC Comsat Mod | |
| | I Prob CLASSIC Comsat Wood | Name discounting |
| | | None discernible |
| | | None discernible |
| | | None discernible |
| | 1 CLASSIC Comsat Mod | Name of the same of the |
| | _ | None discernible |
| | 2 Prob CLASSIC Comsat Mod | |
| | _ | None discernible |
| | 2 Prob CLASSIC Comsat Mod | |
| | _ | None discernible |
| | _ | None discernible |
| | 4 CLASSIC Comsat Mod | |

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coverage last available in 1978.

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REFERENCES

| TM | ٨ | GERY |
|------|---|------|
| TIAI | А | ULL |

(TSR) All KEYHOLE imagery of suitable interpretability acquired through December 1978
was used in the preparation of this report.

Small-Format Imagery

Agency/Mission Accession No Date Classification Figure No

CIA 1517368 May 78 UNCLASSIFIED 2

| Agency/Mission | Accession No | Date | Classification | Figure No |
|----------------|---------------|-----------|----------------|-----------------|
| CIA | 1517368 | May 78 | UNCLASSIFIED | 2 |
| DIA | 6 831 0226 78 | 18 Jul 78 | UNCLASSIFIED | 7 |
| DIA | 2 217 7048 78 | 10 May 78 | CONFIDENTIAL | 9, 10 (top), 11 |
| DIA | 2 217 7062 75 | 1975 | CONFIDENTIAL | 10 (bottom) |
| DIA | 6 844 0099 77 | 29 Apr 77 | CONFIDENTIAL | _ |
| DIA | 6 831 0221 77 | 7 Oct 77 | SECRET | _ |
| DIA | 6 843 0339 78 | 17 May 78 | CONFIDENTIAL | _ |
| DIA | 6 843 0359 78 | 26 May 78 | CONFIDENTIAL | _ |
| | | | | |

DOCUMENTS

2. DEFSMAC. S/DQ/438-78, SS-20 IRBM Launched from KYMTR, 10 October 1978, 101512Z Oct 78 (SECRET)

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| REFERENCES (Con | ntinued) | |
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| QUIREMENT | | |
| Project 130058NE | | |
| (S) Comments and queries regarding this report are we | elcome. They may be directed to | |
| Warsaw Pact Forces Division, Imagery Exploitation | n Group, NPIC, | |
| (S) The author wishes to acknowledge the extensive co | ontributions to this report by | |
| The damer waste to define who age the extensive to | in the state of th | |
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List of Conversion Factors by Classification

UNITS OF LENGTH

UNITS OF MASS

| IF YOU HAVE | MULTIPLY BY | TO OBTAIN | IF YOU HAVE | MULTIPLY BY | TO OBTAIN |
|-------------------|-------------|--------------------|----------------|-------------|----------------|
| MILLIMETERS | 0.0394 | INCHES | KILOGRAMS | 2.2046 | POUNDS(AVOIR.) |
| CENTIMETERS | 0.3937 | INCHES | POUNDS(AVOIR.) | 0.4536 | KILOGRAMS |
| INCHES | 25.4000 | MILLIMETERS | SHORT TONS | 0.9072 | METRIC TONS |
| INCHES | 2.5400 | CENTIMETERS | METRIC TONS | 1.1023 | SHORT TONS |
| FEET | 0.3048 | METERS | METRIC TONS | 0.9842 | LONG TONS |
| FEET | 0.0003 | KILOMETERS | LONG TONS | 1.0160 | METRIC TONS |
| YARDS | 0.9144 | METERS | | | |
| METERS | 3.2808 | FEET | | | |
| METERS | 0.0005 | MILES(NAUTICAL) | | | |
| METERS | 1.0936 | YARDS | U | NITS OF VOL | UME |
| KILOMETERS | 3280.8400 | FEET | | | |
| KILOMETERS | 0.6214 | MILES(STATUTE) | IF YOU HAVE | MULTIPLY BY | TO OBTAIN |
| KILOMETERS | 0.5400 | MILES(NAUTICAL) | LITERS | 0.2642 | GALLONS |
| MILES(STATUTE) | 1.6093 | KILOMETERS | LITERS | 0.0063 | BARRELS(POL) |
| MILES(NAUTICAL) | 6076.1154 | FEET | LITERS | 0.0010 | CUBIC METERS |
| MILES(NAUTICAL) | 1.8520 | KILOMETERS | GALLONS | 3.7854 | LITERS |
| MILES(NAUTICAL) | 1852.0000 | METERS | GALLONS | 0.1337 | CUBIC FEET |
| | | | GALLONS | 0.0238 | BARRELS(POL) |
| | | | GALLONS | 0.0038 | CUBIC METERS |
| | | | BUSHELS | 0.0352 | CUBIC METERS |
| | UNITS OF AR | EA | CUBIC FEET | 7.4805 | GALLONS |
| IF YOU HAVE | MULTIPLY BY | TO OBTAIN | CUBIC FEET | 0.1781 | BARRELS(POL) |
| SQUARE CENTIMETER | S 0.1550 | SQUARE INCHES | CUBIC FEET | 0.0283 | CUBIC METERS |
| SQUARE INCHES | 6.4516 | SQUARE CENTIMETERS | CUBIC YARDS | 0.7646 | CUBIC METERS |
| SQUARE FEET | 0.0929 | SQUARE METERS | BARRELS(POL) | 158.9873 | LITERS |
| SQUARE YARDS | 0.8361 | SQUARE METERS | BARRELS(POL) | 42.0000 | GALLONS |
| SQUARE METERS | 10.7639 | SQUARE FEET | BARRELS(POL) | 5.6146 | CUBIC FEET |
| SQUARE METERS | 1.1960 | SQUARE YARDS | BARRELS(POL) | 0.1590 | CUBIC METERS |
| SQUARE METERS | 1.0000 | CENTARES | CUBIC METERS | 1000.0000 | LITERS |
| SQUARE METERS | 0.0002 | ACRES | CUBIC METERS | 264.1721 | GALLONS |
| SQUARE METERS | 0.0001 | HECTARES | CUBIC METERS | 35.3147 | CUBIC FEET |
| ACRES | 4046.8564 | SQUARE METERS | CUBIC METERS | 28.3776 | BUSHELS |
| ACRES | 0.4047 | HECTARES | CUBIC METERS | 6.2898 | BARRELS(POL) |
| HECTARES | 10000.0000 | SQUARE METERS | CUBIC METERS | 1.3080 | CUBIC YARDS |
| HECTARES | 2.4711 | ACRES | | | |
| | | | | | |

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